

# Contents

- Able KW → Duffy-Anderson JT  
 Adachi K → Ishikura M  
 Aloia A, Colombini I, Fallaci M, Chelazzi L: Behavioural adaptations to zonal maintenance of five species of tenebrionids living along a Tyrrhenian sandy shore 473  
 Ambariyanto, Hoegh-Guldberg O: Influence of field-based nutrient enrichment on the photobiology of the giant clam *Tridacna maxima* 659  
 Anderson TW, Sabado BD: Effects of kinship on growth of a live-bearing reef fish 115  
 Arai T, Otake T, Limbong D, Tsukamoto K: Early life history and recruitment of the tropical eel *Anguilla bicolor pacifica*, as revealed by otolith microstructure and microchemistry 319  
 Atkinson RJA → Pinn EH  
 Bandaranayake WM, Des Rocher A: Role of secondary metabolites and pigments in the epidermal tissues, ripe ovaries, viscera, gut contents and diet of the sea cucumber *Holothuria atra* 163  
 Banks MA → Hedgecock D  
 Bates JA → Innes DJ  
 Ben-David-Zaslow R, Henning G, Hofmann DK, Benayahu Y: Reproduction in the Red Sea soft coral *Heteroxenia fuscescens*: seasonality and long-term record (1991 to 1997) 553  
 Benayahu Y → Ben-David-Zaslow R  
 Bernem K-H van → Blome D  
 Bettencourt V, Guerra A: Carbon- and oxygen-isotope composition of the cuttlebone of *Sepia officinalis*: a tool for predicting ecological information? 651  
 Bigelow KA → Brill RW  
 Block BA → Brill RW  
 Blome D, Schleier U, Bernem K-H van: Analysis of the small-scale spatial patterns of free-living marine nematodes from tidal flats in the East Frisian Wadden Sea 717  
 Bochdanský AB, Deibel D: Measurement of in situ clearance rates of *Oikopleura vanhoeffeni* (Appendicularia: Tunicata) from tail beat frequency, time spent feeding and individual body size 37  
 Boggs CH → Brill RW  
 Bowsler CG → Wildgust MA  
 Boyer JS → Kawamitsu Y  
 Braga E, Zardoya R, Meyer A, Yen J: Mitochondrial and nuclear rRNA based copepod phylogeny with emphasis on the Euchaetidae (Calanoida) 79  
 Brickner I → Ilan M  
 Brill RW, Block BA, Boggs CH, Bigelow KA, Freund EV, Marcinek DJ: Horizontal movements and depth distribution of large adult yellowfin tuna (*Thunnus albacares*) near the Hawaiian Islands, recorded using ultrasonic telemetry: implications for the physiological ecology of pelagic fishes 395  
 Brodie GD → Klussmann-Kolb A  
 Brown JA → Grant SM  
 Brzezinski MA → Reed DC  
 Buchholz F → Cuzin-Roudy J  
 Bustnes JO, Galaktionov K: Anthropogenic influences on the infestation of intertidal gastropods by seabird trematode larvae on the southern Barents Sea coast 449  
 Cannicci S, Paula J, Vannini M: Activity pattern and spatial strategy in *Pachygrapsus marmoratus* (Decapoda: Grapsidae) from Mediterranean and Atlantic shores 429  
 Carlson HR, Pfister CA: A seventeen-year study of the rose star *Crossaster papposus* population in a coastal bay in south-east Alaska 223  
 Case JF → Haddock SHD  
 Cassai C, Prevedelli D: Fecundity and reproductive effort in *Ophryotrocha labronica* (Polychaeta: Dorvilleidae) 489  
 Chelazzi L → Aloia A  
 Cheng I-Jiunn → Wang Hui-Chen  
 Colombini I → Aloia A  
 Comesaña AS, Toro JE, Innes DJ, Thompson RJ: A molecular approach to the ecology of a mussel (*Mytilus edulis* - *M. trossulus*) hybrid zone on the east coast of Newfoundland, Canada 213  
 Connell DB, Sanders JG: Variation in cadmium uptake by estuarine phytoplankton and transfer to the copepod *Eurytemora affinis* 259  
 Conova S: Role of particle wettability in capture by a suspension-feeding crab (*Emerita talpoida*) 419  
 Coury DA → Reed DC  
 Culik BM → Radl A  
 Cunha I → Weltzien F-A  
 Cuzin-Roudy J, Buchholz F: Ovarian development and spawning in relation to the moult cycle in Northern krill, *Meganocyttus norvegica* (Crustacea: Euphausiacea), along a climatic gradient 267  
 Dabinett P → Parrish CC  
 Dai C-F → Yu J-K  
 Danilowicz BS, Sale PF: Relative intensity of predation on the French grunt, *Haemulon flavolineatum*, during diurnal, dusk, and nocturnal periods on a coral reef 337  
 Davies PS → Roberts JM  
 De Nys R → Dworjanyn SA  
 Deibel D → Bochdanský AB  
 Depledge MH → Hebel DK  
 Des Rocher A → Bandaranayake WM  
 D'Souza FML, Loneragan NR: Effects of monospecific and mixed-algae diets on survival, development and fatty acid composition of penaeid prawn (*Penaeus* spp.) larvae 621  
 Duarte CM → Richardson CA  
 Duffy-Anderson JT, Able KW: Effects of municipal piers on the growth of juvenile fishes in the Hudson River estuary: a study across a pier edge 409  
 Duggins DO → Van Alstyne KL  
 Dworjanyn SA, De Nys R, Steinberg PD: Localisation and surface quantification of secondary metabolites in the red alga *Delisea pulchra* 727  
 Eglinton G → Rieley† G  
 Everitt D → Fisher TR  
 Evjen MS → Weltzien F-A  
 Fallaci M → Aloia A  
 Fingerman M → Zou E  
 Fishelson L: Polymorphism in gigantobacterial symbionts in the guts of surgeonfish (Acanthuridae: Teleostei) 345  
 Fisher TR, Gustafson AB, Sellner K, Lacouture R, Haas LW, Wetzel RL, Magnien R, Everitt D, Michaels B, Karrh R: Spatial and temporal variation of resource limitation in Chesapeake Bay 763  
 Fixter LM → Roberts JM  
 Flynn KJ → John EH  
 Franks PJS → Rumsey SM  
 Freund EV → Brill RW  
 Fritz JJ: Carbon fixation and coccolith detachment in the coccolithophore *Emiliania huxleyi* in nitrate-limited cyclostats 509  
 Fusetani N → Hunter E  
 Fyhn HJ → Weltzien F-A  
 Galaktionov K → Bustnes JO  
 Gartner Jr JV → Greely TM  
 Glibert PM → Lomas MW  
 Gold JR, Richardson LR, Turner TF: Temporal stability and spatial divergence of mitochondrial DNA haplotype frequencies in red drum (*Sciaenops ocellatus*) from coastal regions of the western Atlantic Ocean and Gulf of Mexico 593  
 Gradinger R: Vertical fine structure of the biomass and composition of algal communities in Arctic pack ice 745  
 Graham WM → Reed DC  
 Grant SM, Brown JA: Variation in condition of coastal Newfoundland 0-group Atlantic cod (*Gadus morhua*): field and laboratory studies using simple condition indices 611  
 Greely TM, Gartner Jr JV, Torres JJ: Age and growth of *Electrona antarctica* (Pisces: Myctophidae), the dominant

- mesopelagic fish of the Southern Ocean 145  
 Guerra A → Bettencourt V  
 Gulec I → Temara A  
 Gustafson AB → Fisher TR
- Haas LW** → Fisher TR  
**Haddock SHD, Case JF:** Bioluminescence spectra of shallow and deep-sea gelatinous zooplankton: ctenophores, medusae and siphonophores 571  
**Hadfield MG** → Unabia CRC  
**Harris RP** → Lindeque PK  
**Hartline DK** → Lenz PH  
**Hassanein HMA** → Wiens M  
**Hebel DK, Jones MB, Moate RM,**  
 Depledge MH: Differing sensitivities of respiratory and osmoregulatory gill tissue of *Carcinus maenas* (Crustacea: Decapoda) to water-borne copper 675  
**Hedgecock D, Li G, Banks MA, Kain Z:** Occurrence of the Kumamoto oyster *Crassostrea sikamea* in the Ariake Sea, Japan 65  
**Hedrick DB** → Rieley† G  
**Hemminga MA** → Kamermans P  
**Henning G** → Ben-David-Zaslow R  
**Hoegh-Guldberg O** → Ambaryanto  
**Hoegh-Guldberg O, Williamson J:**  
 Availability of two forms of dissolved nitrogen to the coral *Pocillopora damicornis* and its symbiotic zooxanthellae 561  
**Hofmann DK** → Ben-David-Zaslow R  
**Holdway DA** → Temara A  
**Holloway CF** → Klimley AP  
**Hunter E, Shimizu K, Fusetani N:** Role of protein in larval swimming and metamorphosis of *Bugula neritina* (Bryozoa: Cheilostomatida) 701  
**Hustead CL** → Van Alstyne KL
- Ilan M, Loya Y, Kolbasov GA, Brickner I:** Sponge-inhabiting barnacles on Red Sea coral reefs 709  
**Imai I, Itakura S:** Importance of cysts in the population dynamics of the red tide flagellate *Heterosigma akashiwo* (Raphidophyceae) 755  
**Innes DJ, Bates JA:** Morphological variation of *Mytilus edulis* and *Mytilus trossulus* in eastern Newfoundland 691  
**Innes DJ** → Comesaña AS  
**Ishikura M, Adachi K, Maruyama T:** Zooxanthellae release glucose in the tissue of a giant clam, *Tridacna crocea* 665  
**Itakura S** → Imai I
- John EH, Flynn KJ:** Amino acid uptake by the toxic dinoflagellate *Alexandrium fundyense* 11  
**Jones MB** → Hebel DK  
**Jones MB** → Lindeque PK  
**Jones MB** → Roast SD  
**Jones WJ, Quattro JM:** Genetic structure of summer flounder (*Paralichthys dentatus*) populations north and south of Cape Hatteras 129  
**Jong DJ de** → Kamermans P
- Kaehler S, McQuaid CD:** Use of the fluorescent calcein as an in situ growth marker in the brown mussel *Perna perna* 455  
**Kain Z** → Hedgecock D  
**Kamermans P, Hemminga MA, Jong DJ de:** Significance of salinity and silicon levels for growth of a formerly estuarine eelgrass (*Zostera marina*) population (Lake Grevelingen, The Netherlands) 527  
**Karrh R** → Fisher TR  
**Kawamitsu Y, Boyer JS:** Photosynthesis and carbon storage between tides in a brown alga, *Fucus vesiculosus* 361  
**Kennedy DP** → Richardson CA  
**Kennedy H** → Richardson CA  
**Klimley AP, Holloway CF:** School fidelity and homing synchronicity of yellowfin tuna, *Thunnus albacares* 307  
**Klusemann-Kolb A, Brodie GD:** Internal storage and production of symbiotic bacteria in the reproductive system of a tropical marine gastropod 443  
**Knudsen MA** → Petersen JK  
**Kolbasov GA** → Ilan M  
**Korzhev M** → Wiens M  
**Kozasa E** → Yoshimura T  
**Kozioł C** → Wiens M
- Lacouture R** → Fisher TR  
**Lee S-C** → Yu J-K  
**Leggat W** → Shepherd D  
**Lenz PH, Hartline DK:** Reaction times and force production during escape behavior of a calanoid copepod, *Undinula vulgaris* 249  
**Li G** → Hedgecock D  
**Limbong D** → Arai T  
**Lindeque PK, Harris RP, Jones MB, Smerdon GR:** Simple molecular method to distinguish the identity of *Calanus* species (Copepoda: Calanoida) at any developmental stage 91  
**Lomas MW, Glibert PM:** Interactions between  $\text{NH}_4^+$  and  $\text{NO}_3^-$  uptake and assimilation: comparison of diatoms and dinoflagellates at several growth temperatures 541  
**Loneragan NR** → D'Souza FML  
**Loya Y** → Ilan M
- MacDonald JA, Storey KB:** Cyclic AMP-dependent protein kinase: role in anoxia and freezing tolerance of the marine periwinkle *Littorina littorea* 193  
**Magnien R** → Fisher TR  
**Marcinek DJ** → Brill RW  
**Maruyama T** → Ishikura M  
**Mayer S** → Petersen JK  
**McCarthy III JJ** → Van Alstyne KL  
**McDonald P** → Wildgust MA  
**McFadden CS:** Genetic and taxonomic relationships among Northeastern Atlantic and Mediterranean populations of the soft coral *Alcyonium coralloides* 171  
**McQuaid CD** → Kaehler S  
**Meyer A** → Braga E  
**Michaels B** → Fisher TR  
**Moate RM** → Hebel DK
- Moens T, Verbeeck L, Vincx M:** Preservation and incubation time-induced bias in tracer-aided grazing studies on meiofauna 69  
**Molony BW** → Sheaves MJ  
**Montgomery WL, Umino T, Nakagawa H, Vaughn I, Shibuno T:** Lipid storage and composition in tropical surgeonfishes (Teleostei: Acanthuridae) 137  
**Müller WEG** → Wiens M
- Nakagawa H** → Montgomery WL  
**Nickell LA** → Pinn EH
- Oishi K, Saigusa M:** Rhythmic patterns of abundance in small sublittoral crustaceans: variety in the synchrony with day/night and tidal cycles 237  
**Olsen JL** → Reusch TBH  
**Otake T** → Arai T
- Parrish CC, Wells JS, Yang Z, Dabinnett P:** Growth and lipid composition of scallop juveniles, *Placopecten magellanicus*, fed the flagellate *Isochrysis galbana* with varying lipid composition and the diatom *Chaetoceros muelleri* 461  
**Paula J** → Cannicci S  
**Peppas A** → Thessalou-Legaki M  
**Petersen JK, Mayer S, Knudsen MA:** Beat frequency of cilia in the branchial basket of the ascidian *Ciona intestinalis* in relation to temperature and algal cell concentration 185  
**Petty RL** → Reed DC  
**Pfister CA** → Carlson HR  
**Pinn EH, Nickell LA, Rogerson A, Atkinson RJA:** Comparison of gut morphology and gut microflora of seven species of mud shrimp (Crustacea: Decapoda: Thalassinidea) 103  
**Planas M** → Weltzien F-A  
**Prevedelli D** → Cassai C  
**Prevedelli D, Zunarelli Vandini R:** Survival, fecundity and sex ratio of *Dinophyllus gyrociliatus* (Polychaeta: Dinophiliidae) under different dietary conditions 231  
**Proud SV** → Richardson CA  
**Pukall R** → Stackebrandt E
- Quattro JM** → Jones WJ
- Radl A, Culik BM:** Foraging behaviour and reproductive success in Magellanic penguins (*Spheniscus magellanicus*): a comparative study of two colonies in southern Chile 381  
**Reed DC, Brzezinski MA, Coury DA, Graham WM, Petty RL:** Neutral lipids in macroalgal spores and their role in swimming 737  
**Rees TAV** → Shepherd D  
**Reusch TBH, Stam WT, Olsen JL:** Size and estimated age of genets in eelgrass, *Zostera marina*, assessed with microsatellite markers 519  
**Richardson CA, Kennedy H, Duarte CM, Kennedy DP, Proud SV:** Age and growth of the fan mussel *Pinna nobilis* from

- south-east Spanish Mediterranean seagrass (*Posidonia oceanica*) meadows 205
- Richardson LR → Gold JR
- Rieley† G, Van Dover CL, Hedrick DB, Eglinton G: Trophic ecology of *Rimicaris exoculata*: a combined lipid abundance/stable isotope approach 495
- Roast SD, Widdows J, Jones MB: Respiratory responses of the estuarine mysid *Neomysis integer* (Peracarida: Mysidacea) in relation to a variable environment 643
- Roberts JM, Davies PS, Fixter LM: Symbiotic anemones can grow when starved: nitrogen budget for *Anemonia viridis* in ammonium-supplemented seawater 29
- Rogerson A → Pinn EH
- Rosel PE, Tiedemann R, Walton M: Genetic evidence for limited trans-Atlantic movements of the harbor propoiesis *Phocoena phocoena* 583
- Rumsey SM, Franks PJS: Influence of variability in larval development on recruitment success in the euphausiid *Euphausia pacifica*: elasticity and sensitivity analyses 283
- Sabado BD → Anderson TW
- Saigusa M → Oishi K
- Sale PF → Danilowicz BS
- Sanders JG → Connell DB
- Schleier U → Blome D
- Schröder HC → Wiens M
- Seack J → Wiens M
- Sellner K → Fisher TR
- Sheaves MJ, Molony BW, Tobin AJ: Spawning migrations and local movements of a tropical sparid fish 123
- Shepherd D, Leggat W, Rees TAV, Yellowlees D: Ammonium, but not nitrate, stimulates an increase in glutamine concentration in the haemolymph of *Tridacna gigas* 45
- Shibuno T → Montgomery WL
- Shimizu K → Hunter E
- Smerdon GR → Lindeque PK
- Sparrevik E: Sediment texture and cannibalism affect survival during moult in *Saduria entomon* (Isopoda) 437
- Stackebrandt E, Pukall R: Response to Althoff et al. (Mar Biol 130: 529–536). Deriving taxonomic decisions from 16S rDNA: a case study 159
- Stam WT → Reusch TBH
- Steffen R → Wiens M
- Steinberg PD → Dworjanyn SA
- Storey KB → MacDonald JA
- Temara A, Gulec I, Holdway DA: Oil-induced disruption of foraging behaviour of the asteroid keystone predator, *Coscinasterias muricata* (Echinodermata) 501
- Thessalou-Legaki M, Peppas A, Zacharakis M: Facultative lecithotrophy during larval development of the burrowing shrimp *Callinassa tyrrhena* (Decapoda: Callinassidae) 635
- Thompson RJ → Comesana AS
- Thorsen MS: Abundance and biomass of the gut-living microorganisms (bacteria, protozoa and fungi) in the irregular sea urchin *Echinocardium cordatum* (Spatangoida: Echinodermata) 353
- Tiedemann R → Rosel PE
- Tobin AJ → Sheaves MJ
- Toro JE → Comesana AS
- Torres JJ → Greely TM
- Tsukamoto K → Arai T
- Turner TF → Gold JR
- Umino T → Montgomery WL
- Unabia CRC, Hadfield MG: Role of bacteria in larval settlement and metamorphosis of the polychaete *Hydroides elegans* 55
- Van Alstyne KL, McCarthy III JJ, Hustead CL, Duggins DO: Geographic variation in polyphenolic levels of Northeastern Pacific kelps and rockweeds 371
- Van Dover CL → Rieley† G
- Vannini M → Cannicci S
- Vaughn I → Montgomery WL
- Verbeeck L → Moens T
- Vincx M → Moens T
- Walton M → Rosel PE
- Wang Hui-Chen, Cheng I-Jiunn: Breeding biology of the green turtle, *Chelonia mydas* (Reptilia: Cheloniidae), on Wan-An Island, PengHu archipelago. II. Nest site selection 603
- Wang H-Y → Yu J-K
- Wells JS → Parrish CC
- Weltzien F-A, Planas M, Cunha I, Evjen MS, Fyhn HJ: Free amino acid and protein contents of start-feeding larvae of turbot (*Scophthalmus maximus*) at three temperatures 327
- Wetzel RL → Fisher TR
- White KN → Wildgust MA
- Widdows J → Roast SD
- Wiens M, Seack J, Koziol C, Hassanein HMA, Steffen R, Korzhnev M, Schröder HC, Müller WEG: 17 $\beta$ -Estradiol-dependent regulation of chaperone expression and telomerase activity in the marine sponge *Geodia cydonium* 1
- Wildgust MA, McDonald P, White KN, Bowsher CG: Effect of Cd on accumulation and loss of <sup>210</sup>Po in the mussel *Mytilus edulis* 683
- Williamson J → Hoegh-Guldberg O
- Yamakawa H → Yoshimura T
- Yang Z → Parrish CC
- Yellowlees D → Shepherd D
- Yen J → Braga E
- Yoshimura T, Yamakawa H, Kozasa E: Distribution of final stage phyllosoma larvae and free-swimming pueruli of *Panulirus japonicus* around the Kuroshio Current off southern Kyushu, Japan 293
- Yu J-K, Wang H-Y, Lee S-C, Dai C-F: Genetic structure of a scleractinian coral, *Mycedium elephantotus*, in Taiwan 21
- Zacharakis M → Thessalou-Legaki M
- Zardoya R → Braga E
- Zou E, Fingerman M: Chitobiase activity in the epidermis and hepatopancreas of the fiddler crab *Uca pugilator* during the molting cycle 97
- Zunarelli Vandini R → Prevedelli D